verism above named had been made; and I am sure it would be highly instructive to the profession generally to know from such high authorities as the gentlemen referred to, upon what principles the truth of either of the propositions can be made to appear. Surely it has been well said that "when a man has got the name of being an early riser he may lie in his bed all day."

I am, Sir, your obedient servant,

A BUILDER.

January 26, 1844.

DEAR SIR,—It affords me much pleasure to see the steady improvement that is taking place in your journal, the last numbers of which are filled with most interesting matter. My object in writing is to forward to you, with the hope that it may in some measure meet the wishes of your correspondent "A WELL-WISHER," a paper which I put together some years ago connected with the subject of scarfing. I have not now leisure to revise or re-write, and must therefore give it you "with all its imperfections," leaving you at liberty to hew or prune as you may find expedient. I need hardly say that the examples are not original, but selected.

I am glad to find that your views coincide with my own respecting the absence of any provision for the wants of decayed members of the architectural profession—that is, as a distinct body. I have long regretted the non-existence of such an institution; and it was in a great measure for the purpose of getting on foot a fund of the nature referred to (Leader No. 50) for one of the classes you mention, namely "Architectural Draughtsmen," that the society with which I am connected was first instituted; although, what with the "higher grounds" talked of by some, and the jocosities of others, and my failing to impress the majority with an equal conviction of the importance of the subject, that *department* has been materially modified, and become a subordinate feature. I hope, however, that the good intentions of the "*College of the Freemasons of the Church*" may be realized, and that the architectural profession will eventually no longer stand alone unprovided, but possess a haven of refuge for those of its members who, though well doing, may, notwithstanding, be unfortunate.

I remain, obediently yours,

JAMES WELSON,
Hon. Sec.; B. A. A. D.

33, Southampton-street, Strand,
January 27, 1844.

[We have placed in the hands of our engraver the twenty-seven diagrams kindly transmitted to us by our correspondent, and his article will appear as soon as his illustrations are ready.—ED.]

MEASURING ROUND TIMBER.

SIR,—I beg to call the attention of your readers to a blunder of my townsman in No. 49, which is the finding of the cube contents of a piece of round timber, being 6 inches diameter at one end and 6 feet diameter at the other, and 80 feet long.

I must call his attention back to the first part of mathematics, and remind him that although trian-gulation cannot be applied to cube measure, its principles are the same. Lay down a triangle of the dimensions given, agreeably to the rules of geometry, and he can with precision find the mean diameter therefrom, at 40 feet length, being equidistant, viz., 3 feet 3 inches; the area of this being 8·29578750 × 80 = 663·663 cube feet, being less by 139 feet. If he takes them separately, the mean diameter of the thicker part being 4·33 = 18·7489, and its area 14·7253 × 40 = 589·010, contents; the mean diameter of the thinner part being 1·55 = 2·40, and its area 1·8849 × 40 = 75·390 solid contents.

589·010

Total contents 664·400 taken together,

The difference of both ways being one half foot, is accounted for by not extending the decimals.

I trust the above demonstration will prevent many (there are too many) from committing such gross mistakes; as also that of dividing by 4 for the square. I am, Sir, yours very truly,

Liverpool, 17th January, 1844. J. M.

COPYRIGHT OF DESIGNS.

SIR,—If an architect design a building for a certain purpose on a plan not usual, can he prevent any person from erecting a similar building, and adopting the same principle of construction without his permission? The building in question is composed of a series of arches to make it fire-proof, and to be applied to a purpose of which I believe there is no existing example. By publishing the design in the shape of a book, and entering it at Stationers' Hall, would that give him any protection?

Any remarks you may be pleased to make will be [illegible]

January 29, 1844. B.

Miscellanea.

ISLINGTON LITERARY AND SCIENTIFIC SOCIETY.—The annual meeting of the proprietors was held in the theatre of the institution on Thursday week, Charles Woodward, Esq., F.R.S., in the chair. The annual report announced, as in past years, an increase of members and attractions; 630 members were enrolled on its books at Christmas; and the library now contains 5,600 volumes.

EARTHQUAKE.—At Comrie, on the 14th inst., at half-past twelve, noon, a smart shock of perpendicular earthquake was felt. At five minutes past one a second shock occurred, which, although rather less, continued longer. There were three slight sounds heard preceding the first-mentioned shock, two betwixt the shocks, and one about a quarter of an hour after the last, and two during the following night. The momentum of the shocks was nothing to the momentum of the great shocks of 1839 and 1841. Still they were severer than any shock since that time. The accompanying sound was very loud on the present occasion.—*Westmoreland Gazette.*

IMPROVEMENT OF THE METROPOLIS.—The commission for improving the Metropolis, and providing increased facilities of communication within it, had a meeting on Wednesday week at the office in Whitehall-place. The commissioners present were the Earl of Lincoln, the Right Hon. J. C. Herries, the Lord Mayor, Sir R. H. Inglis, Mr. Alderman Humphery, Mr. H. T. Hope, Mr. A. Milne, the Hon. Charles Gore, Sir Robert Smirke, and Mr. Charles Barry.

LEEDS.—A project exists for the erection of a public building in Leeds on a scale much more capacious than any that at present exists. The principal room is to seat three thousand persons, and the edifice is to consist of an hotel of a very superior kind (resembling some of the hotels in Manchester and Liverpool), a masonic lodge, and a picture-gallery, with other accommodations applicable to public purposes.

Mr. James Matheson, M.P. for Ashburton, has just purchased the noble mansion in Cleveland-row, adjoining Sutherland House, so long the town residence of the Earl of Durham. The house will be thoroughly repaired and embellished previous to the return of the honourable member from the Continent.

THE OLD BRIDGE, BATH.—We understand the committee are about to recommend the adoption of an entirely new bridge, which will afford the passengers a roadway of 40 feet, and a clear water-course of 110 feet. The bridge will, it is proposed, be of one arch, and made of cast iron.

MEETINGS OF SCIENTIFIC BODIES,

To-day and during the ensuing week.

SATURDAY, FEB. 3.—*Asiatic*, 14, Grafton-place, 2 P.M.; *Westminster Medical*, 32, Sackville-street, 8 P.M.

MONDAY, 5.—*Entomological*, 17, Old Bond-street, 8 P.M.; *British Architects*, 16, Lower Grosvenor-street, 8 P.M.; *Chemical*, Society of Arts, Adelphi, 8 P.M.: *Medical*, Bolt-court, Fleet-street, 8 P.M.

TUESDAY, 6.—*Linnæan*, Soho-square, 8 P.M.; *Civil Engineers.*—25, Great George-street, 8 P.M.

WEDNESDAY, 7.—*Society of Arts*, Adelphi, 8 P.M.

THURSDAY, 8.—*Royal*, Somerset House, 8½ P.M.; *Antiquaries*, Somerset House, 8 P.M.; *Royal Society of Literature*, 4, St. Martin's-place, 4 P.M.; *Medico-Botanical*, 32, Sackville-street, 8 P.M.

FRIDAY, 9.—*Astronomical*, Somerset House, 8 P.M. (anniversary); *Royal Institution*, Albemarle-street, 8½ P.M.; *Philological*, 49, Pall Mall, 8 P.M.

SATURDAY, 10.—*Royal Botanic*, Regent's-park, 4 P.M.; *Westminster Medical*, 32, Sackville-street, 8 P.M.

The *Oxford Society*, for the study of Gothic Architecture commenced their meetings for the present term on Wednesday last, and will continue them on Wednesday, Feb. 14 and 28, and March 13, 8 P.M.

LINNÆAN SOCIETY.—*Library* open on Monday, Tuesday, and Thursday, and the *Museum* on Wednesday and Friday, from 12 o'clock to 4 in the afternoon.

GEOLOGICAL SOCIETY.—*Library* and *Museums* are open every day from 11 till 5.

ROYAL ASIATIC SOCIETY.—*Museum* is open every Tuesday, Wednesday, and Thursday, from 11 till 4.

CIVIL ENGINEERS.—*Library* open from 9 A.M. to 9 P.M.

LONDON INSTITUTION.—Lectures will be delivered every Monday, Tuesday, and Wednesday, at one o'clock, until Mar. 6.

Tenders.

TENDERS for the Monumental Chambers at the Cemetery, Kensal-green.—Mr. Griffith, Architect.

Messrs. Piper (Bishopsgate-street)	£6,841
Mr. Stephens (Charlotte-street, Portland-place)	6,814
Mr. Lander (Kensal-green)	5,671

NOTICES OF CONTRACTS.

BUILDING SEWERS in Cree-Church-lane, King-street, Duke-street, and Great Duke's-place, City.—Plan and Specification at Sewers' Office, Guildhall, daily from ten till four o'clock.—Joseph Daw, Principal Clerk. Feb. 13, 1844.

BUILDING THREE ROOMS OF LARGE DIMENSIONS, LAMBETH.—Plans and Specifications at 96, Westminster Bridge-road.

FORMATION OF RESERVOIRS and laying down Iron Conduit, with other masonry work connected therewith, Bradford Waterworks.—Plans, &c., to be seen, and further information had, at the Office of Messrs. Leather and Son, Civil Engineers, Leeds; John Thompson, Law Clerk to the Company. Feb. 13, 1844.

WORKS REQUIRED FOR THE NEW FISH MARKET, GREAT YARMOUTH.—Plans, &c., to be seen on application to Mr. A. T. Tillett, Architect, King-street, Great Yarmouth; Town Clerk. Feb. 21, 1844.

CONSTRUCTING various STATIONS at GATESHEAD and other places, Newcastle and Darlington Junction Railway.—Plans, &c., at Railway Office, York.—Further particulars on application to Mr. Andrews, Architect, York.—G. Hudson, Esq., Chairman Feb. 13.

BUILDING A COUNTY LUNATIC ASYLUM AT LITTLEMORE, OXFORD.—Plans, &c., at Mr. R. Clarke's, Architect, Clinton-street, Nottingham, or at the Office of the Clerk of the Peace, Oxford.—J. M. Davenport, Clerk of the Peace. February 22, 1844.

BRIDLINGTON PIERS AND HARBOUR.—Erection of a new south pier, removal of present pier, and other works for enlargement of Harbour.—Plans and Specifications at the Office of Mr. Sidney Taylor, Solicitor, Bridlington. March 1, 1844.

ALTERING EARL SUFFOLK COUNTY HALL AND COURTS OF JUSTICE, IPSWICH.—Plans, &c., for inspection on application to Mr. Whiting, Surveyor, &c., County Hall, Ipswich, on Monday Jan. 29: J. H. Borton, Clerk of the Peace, Bury St. Edmunds. February 12, 1844.

WORKHOUSE ALTERATIONS, ST. LUKE, MIDDLESEX.—Plans, &c., at Workhouse.—J. Parson, Vestry Clerk. Feb. 7, 1844.

COMPETITION.

PREMIUM of 20 guineas for the best plans and estimates for erection of a new gaol, Banbury.—All information may be obtained on application to the Town Clerk. March 1, 1844.

TO OUR CORRESPONDENTS.

PERIODICAL LITERATURE.—A BIRD-OF-PASSAGE.—*The letter of our droll and industrious correspondent*, "J. R. W.," *dated from Norton street, the 1st of January last, and which appeared in our No. XLVIII., has, it seems, migrated wonderfully. 'Going northwards (diverging a little to the west), it stopped at Manchester, as a half-way house; from thence, having shaken off all that related not to Manchester, it took its course the further northwards, and in a week or two arrived opposite the Orkneys. Having there (after an excursion to the lakes of Killarney, and being thus arrested in Dublin by the eloquence of Shiel) somehow or other, flown into Cornwall (land of pronatis, and savoury pilchards), it on Thursday morning last alighted from the* Cornwall Gazette, *and in that morning reappeared with the* "Times" *in London.*

The appearance of several articles of correspondence, which we had intended to insert in our present Number, we have been reluctantly compelled to postpone from want of space.

We have several fine specimens of the details of Gothic architecture ready for early insertion, and have others progressing for our intended extensive treatment of the subject.

SIR,—*I wish you could inform me, through your paper, of the best book on agriculture, and the best book of designs for farms, &c., fitted for New Zealand, and where I could obtain them.*

I am, Sir, yours, &c.,

A SUBSCRIBER.

[*Few architectural books of the kind mentioned by our correspondent have been published, though many of the designs contained in it are very exceptionable. London's Cyclopædia of Cottage and* [illegible] *contains a great deal of information upon the subject.*—ED.]

For info